

gamma-tocopherol by HPLC µg/g

Fraction I ^{a)} Tr

Fraction II ^{b)} Tr

delta-tocopherol by HPLC µg/g

Fraction I ^{a)} N.D.

Fraction II ^{b)} N.D.

all-trans retinol by HPLC (IU)

Fraction I ^{a)} 395,57

Fraction II ^{b)} 440,47

cholecalciferol by HPLC (IU)

Fraction I ^{a)} N.D.

Fraction II ^{b)} N.D.

Data from Professor Robert Ackman's laboratory, Canadian Institute of Fisheries Technology,

Halifax, Nova Scotia.

Data expressed per gram of krill oil.

^{a)} : Extraction made with a sample-acetone ratio of 1:6 (w/v), incubated 2h at 4°C.

^{b)} : Extraction made with a sample-ethyl acetate ratio of 1:2 (w/v), incubated 30 min at 4°C, following a first extraction with acetone.

TR = trace

N.D. = not detected

Conversion : Vitamin alpha-tocopherol mg/g oil x 1,36 = International Unit

 All-trans retinol µg/g ÷ 0,3 = International Unit

**TABLE 17. ASTAXANTHIN AND CANTHAXANTHIN CONTENT OF KRILL OIL
(*E. pacifica*)**

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Asthaxantin (µg/g oil)

Fraction I ^{a)}	93,1
Fraction II ^{b)}	121,7

Canthaxanthin (µg/g oil)

Fraction I ^{a)}	270,4
Fraction II ^{b)}	733,0

Data from Professor Robert Ackman's laboratory, Canadian Institute of Fisheries Technology,
Halifax, Nova Scotia.

^{a)} : Extraction made with a sample-acetone ratio of 1:6 (w/v), incubated 2h at 4°C.

^{b)} : Extraction made with a sample-ethyl acetate ratio of 1:2 (w/v), incubated 30 min at 4°C, following a first extraction with acetone.

TABLE 18. OPTIMAL CONDITIONS FOR LIPID EXTRACTION OF AQUATIC ANIMAL TISSUES (suggested procedure)

<u>STEP</u>	<u>CONDITIONS</u>
Grinding (if particles > 5mm)	4°C
Lipid extraction	sample-acetone ratio of 1:6 (w/v) 2h (including swirling 20 min) 4°C
Filtration	organic solvent resistant filter

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	under reduced pressure
Washing	sample-acetone ratio of 1:2 (w/v) pure and cold acetone
Filtration	organic solvent resistant filter under reduced pressure
Evaporation	under reduced pressure
Oil-water separation	4°C
Lipid extraction	<u>sample: ethyl acetate</u> ratio of 1:2 (w/v) ^{a)} pure <u>ethyl acetate</u> 30 min 4°C ^{b)}
Filtration	organic solvent resistant filter under reduced pressure
Evaporation	under reduced pressure

a): Ethanol can be replaced by isopropanol, *t*-butanol or ethyl acetate.

b): 25 °C when using *t*-butanol.

TABLE 19: PROTEOLYTIC ACTIVITY OF KRILL RESIDU USING LACTOSERUM AS THE SUBSTRATE, AT 37 °C, PH 7.0 FOR A RATIO ENZYME:SUBSTRATE OF 1:43

Time (min)	Amino acids released (µmoles)	Enzymatic rate (µmoles/min)	Specific activity	enzymatic
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 105220-94T0E860
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